



Department of Defense US Army Medical Research and Materiel Command

Fiscal Year 2002 Breast Cancer Research Program Awards List

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INTRODUCTION

The US Army Medical Research and Materiel Command is pleased to present the award list of funded projects for the fiscal year 2002 (FY02) Breast Cancer Research Program (BCRP). Award negotiations were completed on September 30, 2003. The awards listed in this document were selected by a competitive, two-tiered review process. Funding decisions were based upon scientific excellence evaluated in the first tier of review, followed by programmatic relevance judged in the second tier. These projects represent a diverse portfolio of scientific research in four categories: (1) Training/Recruitment Awards, (2) Research Awards, (3) Infrastructure Awards, and (4) Innovator Awards.

Congressional direction for FY02 specified \$150 million for breast cancer research. Following the receipt of funds, a programmatic strategy was developed, proposals were requested and evaluated, awards were selected, and contract negotiations were completed. A total of 451 awards was made.

The Training/Recruitment Award category includes Undergraduate Summer Training Program, Predoctoral Traineeship, Postdoctoral Traineeship, Clinical Research Nurse, Physician-Scientist Training, and HBCU/MI¹ Partnership Training Awards. Each undergraduate award will support the establishment of a summer breast cancer training program to provide meaningful research experiences for four to eight undergraduate students. Predoctoral Traineeship Awards are intended to support promising graduate students studying breast cancer under the guidance of a designated mentor. Postdoctoral Traineeship Awards should enable recent medical and other doctoral degree graduates to obtain the necessary experience to pursue a career in breast cancer research. Clinical Research Nurse Awards are intended to help prepare nurses for active careers in breast cancer research and testing. Physician-Scientist Training Awards address the critical shortage of physicians performing clinical breast cancer research. HBCU/MI Partnership Training Awards are intended to provide assistance at an institutional level to support collaborations between multiple investigators at an applicant HBCU/MI and a collaborating institution with established investigators in breast cancer research, for the purpose of creating an environment that fosters breast cancer research and in which the HBCU/MI faculty investigators will receive training toward establishing successful breast cancer research careers.

The Research Award category consists of Biotechnology Clinical Partnership, Clinical Translational Research (CTR), Exploration, and Idea Awards. Biotechnology Clinical Partnership Awards are intended to support prospective clinical trials in the areas of breast cancer therapeutics and chemoprevention through the establishment of partnerships between the biotechnology industry and academic institutions. The intent of CTR Awards is to extend recent findings in breast cancer research that offer the potential to revolutionize the practice of breast cancer care. Exploration Awards are designed to encourage the exploration of untested, innovative questions in breast cancer. The intent of Idea Awards is to encourage innovative, high-risk approaches to breast cancer research that have a high probability of revealing new avenues of investigation.

¹ Historically Black Colleges and Universities/Minority Institutions

The Infrastructure Award category consists of Collaborative-Clinical Translational Research (C-CTR) and Breast Cancer Center of Excellence Awards. The intent of C-CTR Awards is to foster the development of highly effective collaborative and consortia models to evaluate promising agents and technologies in well-designed clinical trials that use the combined resources of academia, the private sector, and community-based oncology clinics. The Breast Cancer Center of Excellence Awards are intended to unite a directed, multi-institutional collaboration among highly accomplished scientists from diverse backgrounds and areas of expertise to accelerate the solution of a major overarching problem in breast cancer research.

The intent of the Innovator Awards is to provide accomplished and visionary scholars/investigators from the academic, government, and private sectors with the funding and freedom to pursue creative, potentially breakthrough research that could ultimately accelerate the eradication of breast cancer.

As the funded investigators embark on these projects, the Department of Defense and the US Army gratefully acknowledge the participation of their scientist, clinical, and consumer advisors. The expertise, vision, and diversity of perspectives from all individuals who contributed to this program were vital in developing a sound investment strategy on behalf of all persons affected by breast cancer. It is with great anticipation and excitement that we await the outcomes of this research.

Innovator Award

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC022331	Halas	Naomi	Rice University	Seamless Integration of Detection and Therapy for Breast Cancer Using Targeted Engineered Nanoparticles	\$2,973,424

Breast Cancer Center of Excellence Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC022339	Esserman	Laura	University of California, San Francisco	Blueprint for Regional Excellence in Breast Cancer Care	\$6,942,240
BC022345	Cavalieri	Ercole	University of Nebraska Medical Center	Estrogen-Induced Depurination of DNA: A Novel Target for Breast Cancer Prevention	\$5,656,344
BC022346	Shields	Peter	Georgetown University Medical Center	Molecular Epidemiology and Mechanisms for Breast Carcinogenesis: Alcohol Drinking as a Paradigm	\$7,039,369

Biotechnology Clinical Partnership Award

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC022333	Wilhelm	Olaf	Wilex AG	Antiproteolytic Therapy Targeting Urokinase- Plasminogen Activator (uPA) for the Treatment of Breast Cancer Patients	\$3,921,254

Clinical Translational Research Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020043	Seon	Ben	Roswell Park Cancer Institute	Vascular-Targeting Anti-Angiogenic Therapy of Human Breast Cancer	\$3,089,794
BC020048	Kufe	Donald	Dana-Farber Cancer Institute	Fusions of Breast Carcinoma and Dendritic Cells as a Vaccine for the Treatment of Metastatic Breast Cancer	\$1,926,274
BC022348	Woo	Savio	Mount Sinai School of Medicine	Immunomodulatory Gene Therapy in Patients with Metastatic Breast Cancer	\$3,880,380

Clinical Research Nurse Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020768	Martin	Wanda	University of Manitoba	Perception of Risk and Surveillance Practices for Women with a Family History of Breast Cancer	\$63,433
BC020850	Stricker	Carrie	University of Pennsylvania	Chemotherapy-Induced Alopecia and Symptom Distress in Younger and Older Women with Breast Cancer: Intergroup Differences and Impact on Functional Status	\$199,462
BC020860	Kemble	Katherine	Washington University	The Effects of Low to Moderate Intensity Aerobic Exercise on Fatigue in Breast Cancer Patients following Clinical Treatment	\$195,626
BC021168	Jacobs	Linda	University of Pennsylvania	Hot Flashes and Quality of Life among Breast Cancer Patients	\$200,000
BC021350	Ingram	Carolyn	McMaster University	A Research Program of Weight and Body Composition Management for Women with Breast Cancer	\$54,450
BC021482	Bakitas	Marie	Dartmouth College	Improving Symptom Control, QOL, and Quality of Care for Women with Breast Cancer: Developing a Research Program on Neurological Effects via Doctoral Education	\$193,296
BC021853	Katapodi	Maria	University of California, San Francisco	Exploring Women's Perceptions of Their Risk of Developing Breast Cancer	\$193,500
BC021862	Baltzell	Kimberly	University of California, San Francisco	Exploring Early Detection Methods: Using the Intraductal Approach to Predict Breast Cancer	\$200,000
BC022081	Hsu	Hsin-Tien	University of California, San Francisco	Determinants of Exercise for Breast Cancer Survivors with Fatigue in Taiwan	\$200,000
BC022090	Barton	Debra	Mayo Clinic and Foundation, Rochester	Changes in Ovarian Stromal Function in Premenopausal Women Undergoing Chemotherapy for Breast Cancer	\$191,383
BC022320	Swenson	Karen	Park Nicollet Institute	Predictors of Lymphedema following Breast Cancer Surgery	\$197,231

Concept Awards

Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023011	Jeon	Noo Li	University of California, Irvine	Quantitative Analysis of Cancer Cell Migration in Gradients of EGF, HGF, and SDF-alpha Using a Microfluidic Chemotaxis Device	\$104,545
BC023028	Wang	Xiao-Fan	Duke University	Analysis of the Link between Acquired Expression of a Master Switch Gene of Osteoblast Differentiation by Breast Cancer and Bone Metastasis	\$115,500
BC023050	Chen	Xiaoyuan	University of Southern California	Development of Quantum Dot Probes for Near-Infrared Fluorescence Imaging of Breast Cancer Angiogenesis	\$121,594
BC023062	Havre	Pamela	Yake University	The Roles of p53, ATM, and BRCA1 in Penicillamine-Induced Apoptosis	\$122,625
BC023090	Surmacz	Eva	Thomas Jefferson University	Obesity and Postmenopausal Breast Cancer: Leptin-Estrogen Crosstalk	\$117,750
BC023111	Patrick	Charles	University of Texas M.D. Anderson Cancer Center	Restoring the Breast Mound Using a Preadipocyte-Seeded, Growth Factor-Loaded Polymer Hydrogel System	\$113,250
BC023123	Cassidy	Pamela	University of Utah	Covalent Adducts between Thioredoxin Reductase and Endogenous Electrophiles in Human Breast Cancer	\$112,125
BC023151	Tsan	Min-Fu	Institute for Clinical Research, Inc.	Effect of Depleting Tumor-Associated Macrophages on Breast Cancer Growth and Response to Chemotherapy	\$109,050
BC023165	Nishikawa	Robert	University of Chicago	Computerized Identification of Normal Mammograms	\$114,375
BC023174	Degani	Hadassa	Weizmann Institute of Science	Novel ER-Binding MRI Contrast Agents for Breast Cancer Diagnosis and Evaluation of Hormonal Status	\$122,400
BC023177	Knutson	Keith	Washington University	The Identification of Breast Tumor Antigens Targeted by the Immune Response during Tumor Rejection	\$113,700
BC023187	Van Golen	Kenneth	University of Michigan	Understanding the Mechanisms of Farnesyl Transferase Inhibitor Action in the Treatment of Inflammatory Breast Carcinoma	\$102,356
BC023188	Mizinga	Kemmy	University of Kansas, Health Sciences	Promoter Switching and Transcription Factor Usage during Breast Adipocyte Differentiation: Role in Aromatase Expression and Activity	\$112,500
BC023189	Xie	Wen	University of Pittsburgh	Functional Estrogen Deprivation by Activating the Orphan Nuclear Receptor PXR	\$111,688
BC023193	Scully	Ralph	Beth Israel Deaconess Medical Center, Boston	Role for BRCA1 in Suppressing Fragile Site Expression	\$127,500
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023194	Pittman	Douglas	Medical College of Ohio	Genomic Instability and the Initiation of Breast Cancer	\$110,250
BC023216	Segall	Jeffrey	Albert Einstein College of Medicine of Yeshiva University	Identification of Intravasation Sites Using Magnetic Resonance Imaging	\$125,250

BC023223	Jones	Lee	University of Alberta	Examining the Effects of Exercise Training on Tumor Response to Anthracycline-Based Chemotherapy	\$114,305
BC023226	Petukhov	Pavel	Georgetown University	Drug Discovery of AKT Inhibitors Targeting AKT Hydrophobic Motif Binding Site	\$116,400
BC023230	Sealy	Linda	Vanderbilt University	Sumo and C/EBP-beta in Invasive Breast Cancer	\$113,250
BC023235	Gaur	Rajesh	City of Hope Medical Center	Role of Carcinoembryonic Antigen (CEA) in Breast Cancer	\$131,250
BC023253	Stoica	Adriana	Georgetown University	AKT1 – A New Marker for Tamoxifen Resistance in ER-Dependent Breast Cancer	\$116,400
BC023254	Stoica	Gerald	Georgetown University	Modulation of Anaplastic Lymphoma Kinase upon Tumor-Stroma Interaction and Its Implications for Tumor Growth and Metastasis in Breast Cancer	\$116,400
BC023256	Xu	Bo	Louisiana State University Health Science Center	Targeting ATM-SMC1 Pathway to Sensitize Breast Cancer Cells to Therapeutic Interventions	\$106,465
BC023276	Giorgio	Todd	Vanderbilt University	Nuclear Targeting of Drug and Gene Therapies to Breast Carcinoma	\$113,250
BC023281	Weichselbaum	Ralph	University of Chicago	Enhancement of Sensitivity of Breast Cancer Cells to Cytotoxic Chemotherapy via Inhibition of H2AX Phosphorylation by Peptide(s)	\$112,844
BC023291	Atkinson	Charlotte	Fred Hutchinson Cancer Research Center	Equol-Producing Bacteria and Estrogen Metabolism	\$129,750
BC023300	Crowe	David	University of Southern California	Characterization of Breast Cancer Stem Cells	\$121,594
BC023324	Benjamin	Laura	Beth Israel Deaconess Medical Center, Boston	Investigation of Prominin's Role in Breast Cancer	\$127,500
BC023325	Srivastava	Rakesh	University of Maryland, Baltimore	Therapeutic Potential of a Novel SMAC/Diablo in Breast Cancer	\$111,375
BC023328	Eliopoulos	Nicoletta	McGill University	Soluble Erythropoietin Receptor for Gene Therapy of Breast Cancer	\$102,094
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023346	Pink	John	Case Western Reserve University	The Role of Calgranulin Overexpression in Breast Cancer Progression	\$114,750
BC023350	Wang	Ya	Thomas Jefferson University	A New Explanation for the Roles of FHIT Protein in the Progress of Breast Cancer	\$117,750
BC023363	Kolonin	Mikhail	University of Texas M.D. Anderson Cancer Center	Addressing the Controversial Vascular Heterogeneity of Breast Cancers for Their Targeted Therapy	\$113,250
BC023370	Wang	Shaomeng	University of Michigan	Structure-Based Discovery and Testing of Non-Peptide, Cell-Permeable, Small Molecule Inhibitors of STAT-3 as a Potential Novel Therapy for Breast Cancer	\$114,750
BC023371	Lippman	Marc	University of Michigan	Acquired Tamoxifen Resistance and Overexpression of Anti-Apoptotic Molecules: A Potential Strategy for Overcoming Endocrine Resistance	\$112,100
BC023380	Wang	Shaomeng	University of Michigan	Design and Evaluation of Cyclized Small Peptides Derived from HER-2 as a Novel Therapeutic Strategy for Breast Cancer	\$114,750

BC023387	Giorgio	Todd	Vanderbilt University	Nanoscale Facilitation of Drug and Gene Biodistribution in Breast Tissue	\$102,285
BC023394	Luker	Gary	Washington University	Imaging CXCL12-CXCR4 Regulation of Breast Cancer Metastases	\$114,750
BC023410	Gorelik	Elieser	University of Pittsburgh	Enhancement of Anti-Angiogenic Therapy in Breast Cancer with Purinergic Antagonists	\$111,656
BC023420	Tanese	Naoko	New York University School of Medicine	Identification of HP1 Target Genes Involved in Progression of Breast Cancer	\$126,750
BC023440	Kang	Kyung	University of Louisville	Cancer-Specific Nano Gold Particles for Optical Contrast Enhancement and Hyperthermic Treatment	\$106,960
BC023494	Frisch	Steven	Burnham Institute	Does Anoikis Involve a DNA Damage Response Pathway?	\$144,000
BC023498	Park	Sang-Hyun	University of California, San Francisco	Shunting Proliferation Signals to Apoptotic Pathways for Treatment of Breast Cancer	\$113,625
BC023499	Ghandehari	Hamid	University of Maryland, Baltimore	Targetable Endolytic Protein-Based Polymers for Systemic Breast Cancer Gene Therapy	\$111,375
BC023502	Patterson	Garth	Rutgers University	Genomic Study of Breast Cancer Genes	\$116,625
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023517	Shyamala	G.	Lawrence Berkeley National Laboratory	Potential Regulation of Estrogen Receptor alpha Dependent Responses by SATB1	\$136,455
BC023522	Sharma	Mahesh	Drexel and MCP Hahnemann Universities	Annexin II-Mediated Ca ⁺⁺ Influx Regulates Endothelial Cell (EC) Apoptosis and Tumor Angiogenesis	\$112,500
BC023523	Alexander	Caroline	University of Wisconsin, Madison	WNT-Induced Progenitors: Are They Highly Mutable?	\$109,125
BC023525	Tomita	York	Georgetown University	Pharmacological Rescue of Mutant p53	\$116,400
BC023526	Chen	Jian-Jun	University of Michigan	Enhance Efficacy of Dendritic Cell-Based Breast Cancer Vaccine by Blocking Tumor-Derived TGF-beta	\$109,938
BC023532	Banerjee	Dipak	University of Puerto Rico, San Juan	Unfolded Protein Response Mediated Cell Death: A New Anti-Angiogenic Strategy to Eradicate Breast Cancer	\$111,750
BC023544	Blume	Scott	University of Alabama at Birmingham	The 12.5 kDa Product of the Human C-Myc Upstream Open Reading Frame as a Possible Tumor Suppressor	\$108,750
BC023546	Zhang	Jian-Ting	Indiana University, Indianapolis	Proteomics Analysis of Molecular Mechanisms of Multidrug Resistance in Breast Cancer Chemotherapy	\$112,875
BC023553	Hiebert	Scott	Vanderbilt University	Molecular Mechanism of Tumor Suppression by the MTG16 Breast Cancer Tumor Suppressor	\$113,250
BC023558	Xiao	Sheng	Brigham and Women's Hospital	Constitutive Activation of Insulin Receptor Substrate 1 in Breast Cancer: Therapeutic Implication	\$93,750
BC023560	Andrews	Heather	University of British Columbia	Serum uPA as a Prognostic Marker for Breast Cancer Relapse	\$75,000

BC023561	Urquidi	Virginia	University of California, San Diego	Identification of Breast Cancer Metastasis Suppressor Genes	\$114,000
BC023578	Feinberg	Andrew	Johns Hopkins University, East Baltimore Campus	The Barker Hypothesis and the Epigenetics of Breast Cancer	\$122,625
BC023581	Povirk	Lawrence	Virginia Commonwealth University	Role of BRCA1 in Nonhomologous DNA End Joining	\$112,500
BC023587	Fan	Zhen	University of Texas M.D. Anderson Cancer Center	PDK1, a Preferred Therapeutic Target for the PI-3 Kinase Pathway in Human Breast Cancer	\$113,250
BC023590	Galipeau	Jacques	McGill University	Mesenchymal Stem Cells for Vascular Target Discovery in Breast Cancer-Associated Angiogenesis	\$99,738
BC023595	Seth	Prem	Evanston Northwestern Healthcare Research Institute	A Strategy for Treating Breast Cancer with a Replication Selective Oncolytic Adenovirus Expressing Soluble TGF-beta Receptor II	\$113,940
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023601	Lawson	James	University of New South Wales	Conceptualizing Approaches to the Investigation of a Viral, Hormone, and Diet Hypothesis for the Etiology of Human Breast Cancer in Genetically Susceptible Women	\$85,000
BC023613	Frost	Andra	University of Alabama at Birmingham	Role of Smooth Muscle Actin in Stromal-Epithelial Interactions	\$108,750
BC023618	Yager	James	Johns Hopkins University, East Baltimore Campus	Development of a Mouse Model for Determination of the Role of the Catechol Metabolites of Estradiol in Mammary Tumorigenesis	\$122,625
BC023633	Presley	John	McGill University	Quantum-Dot-Based Automated Screen of Sentinel Lymph Nodes for Metastatic Breast Cancer	\$102,565
BC023637	Quinn	Thomas	University of Missouri, Columbia	TF and TN Antigen Screening of Breast Cancer Patient Nipple Aspirate Fluid for Disease Detection and Prognosis	\$108,750
BC023638	Schneider	Robert	New York University School of Medicine	Role of Translation Initiation Factor EIF4G in Promoting Breast Cancer Progression	\$126,750
BC023641	Huang	Xi	New York University School of Medicine	Hormone Replacement Therapy, Iron, and Breast Cancer	\$126,750
BC023644	Pantschenko	Alexander	University of Connecticut, Farmington	The Distribution, Levels, and Relevance of the Interleukin-1 Family of Cytokines and Receptors in Human Breast Carcinoma-Induced Osteolysis	\$108,750
BC023673	Fang	Guowei	Stanford University	A Proteomic Approach to Identify Key Regulators during Breast Tumorigenesis	\$120,000
BC023677	Masinde	Lwandiko	Hampton University	The Dynamics of Intracellular Uptake of Surface Modified Poly(D,L-Lactide-Co-Glycolide) Nanoparticles in Breast Cancer Cells	\$111,375
BC023698	Abcouwer	Steve	University of New Mexico, Albuquerque	Control of Breast Carcinoma Angiogenesis by Nutrient Stress Mechanisms	\$110,400
BC023701	Sarcevic	Borislav	Garvan Institute of Medical Research	Evaluation of a Role of the Neuropeptide Y4 Receptor in Mammary Gland Development and Inhibition of Mitogenesis in Human Breast Cancer Cells	\$123,750

BC023716	Clark	Susan	University of Sydney	Epigenetic Inheritance of Breast Cancer	\$97,500
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023718	Chang	Nan-Shan	Guthrie Research Institute	Regulation of Hormone Dependence in Breast Cancer by Wox1	\$110,850
BC023737	Fields	Timothy	Duke University	G Protein Involvement in Breast Cancer Progression and Metastasis	\$115,000
BC023742	Lewis	Michael	Baylor College of Medicine	Development of a Combination Cell and Gene Therapy Approach for Early-Stage Breast Cancer	\$112,875
BC023758	Weber	Thomas	Mount Sinai School of Medicine, New York	Novel approach to raise an anti-tumor immune response	\$127,125
BC023779	Ip	Margot	Roswell Park Cancer Institute, Buffalo	Are Mammary Stromal-Vascular Cells True Endothelial Progenitors?	\$134,307
BC023782	Burma	Sandeep	Lawrence Berkeley National Laboratory	Interaction of BRCA1 with the DNA-Dependent Protein Kinase	\$128,527
BC023785	Dmitriev	Igor	University of Alabama at Birmingham	An Oncotropic Adenovirus Vector System for Breast Cancer Treatment	\$108,750
BC023788	Peterson	Blake	Pennsylvania State University	Synthetic Inhibitors of RAS Palmitoylation: Defining a Novel Class of Drugs Targeting Breast Cancers	\$106,269
BC023790	Okunieff	Paul	University of Rochester	Cytokine Disruption to Prevent Radiation-Related Breast Damage	\$118,125
BC023807	Blondelle	Sylvie	Torrey-Pines Institute for Molecular Studies	Development of Peptide Antagonists of Chemokine Receptors Involved in Breast Cancer Metastasis	\$136,500
BC023815	Gay	Carol	Pennsylvania State University	Unique Proteins Expressed by Blood Vessels in Skeletal Sites Colonized by Breast Cancer Cells	\$108,000
BC023845	Vadlamudi	Ratna	University of Texas M.D. Anderson Cancer Center	Significance of Localization of Coactivators in Tamoxifen Resistance	\$112,500
BC023855	Suen	Ting-Chung	New York University School of Medicine	Identification of Transcriptional Repressors of Brca1	\$126,750
BC023868	Janknecht	Ralf	Mayo Clinic and Foundation, Rochester	RCL, a Novel Breast Cancer Oncoprotein?	\$109,500
BC023869	Greenberg	Charles	Duke University	Inhibition of Blood Coagulation in Breast Cancer	\$115,500
BC023875	Bertozzi	Carolyn	University of California, Berkeley	Non-Invasive Imaging of in Vivo Breast Cancer Tissue Utilizing Metabolically Incorporated Unnatural Sugars	\$114,000
BC023880	Larabell	Carolyn	Lawrence Berkeley National Laboratory	Self-Defense Mechanisms of Normal Breast Cells	\$132,804
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC023882	Zaveri	Nurulain	SRI International	A Novel Anti-Invasive Small Molecule as a Potential Candidate for Inhibition of Breast Cancer Metastasis	\$152,213
BC023883	Gaczynska	Maria	University of Texas Health Science Center at San Antonio	Proteasome-Related Molecular Signature of Breast Cancer. Rationalizing the Use of Proteasome Inhibitors in Breast Cancer Therapy	\$109,500
BC023897	Karaplis	Andrew	McGill University	Osteoblast-Derived PTHRP and Breast Cancer Bone Metastasis	\$98,560

BC023899	Gertig	Dorota	University of Melbourne	Applying Statistical Models to Mammographic Screening Data to Understand Growth and Progression of Ductal Carcinoma in Situ	\$78,051
BC023910	Sobel	Eugene	Friends Research Institution, Inc.	Low Melatonin Production during Adulthood – Phase 2: Association with Levels of Hydroxyl Radical Scavenging and DNA Damage	\$91,125
BC023913	Retzinger	Gregory	University of Cincinnati	Fibrin (Ogen)-Mediated Extracellular Transport of Breast Cancer Cells by Macrophages: A New Idea Regarding Metastasis	\$115,125
BC023924	Beam	Craig	University of South Florida, H. Lee Moffitt Comprehensive Cancer Center	Time-Series Analysis of Human Interpretation Data in Mammography	\$123,000
BC023939	Golemis	Erica	Fox Chase Cancer Center	Integrin-Dependent Antagonism of Tamoxifen Therapy through Transcriptional Replacement: Establishing a Basis for a New Combined Therapy	\$127,500
BC023972	Godwin	Andrew	Fox Chase Cancer Center	BRCC36, a Novel Subunit of a BRCA1/2 E3 Ubiquitin Ligase Complex: Candidate Breast Cancer Susceptibility Gene	\$127,500
BC023982	Tlsty	Thea	University of California, San Francisco	Modulation of Epigenetic Changes in Cancer by the Stromal Environment	\$113,625
BC023988	Herrera	Rafael	Baylor College of Medicine	Cell Cycle Inhibitors as Breast Cancer Prevention Agents	\$112,875
BC023992	Morris	Marilyn	State University of New York, Buffalo	Phenethyl Isothiocyanate in Breast Cancer Prevention	\$117,750
BC023995	Berleth	Erica	Roswell Park Cancer Institute, Buffalo	Identification of Breast-Specific Substrate Proteins for BRCA1-Catalyzed E3 Ubiquitin Ligation	\$121,488
BC024014	Wong	Albert	Thomas Jefferson University	Rapid Identification of Tumor-Specific Alternative Splice Forms	\$117,750
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC024028	Mastro	Andrea	Pennsylvania State University	Trafficking of Metastatic Breast Cancer Cells in Bone	\$108,000
BC024039	Bustamante	Ernesto	University of North Carolina, Chapel Hill	Role of Mitochondrially-Bound Hexokinase in the Apoptosis Mediated by the Mitochondrial Permeability Transition of Breast Cancer Cells in Culture	\$109,125
BC024051	Bulinski	J. Chloe	Columbia University	Novel Microtubule-Stabilizing Reagents	\$122,625
BC024052	Sussman	Daniel	University of Maryland, Baltimore	Mammary Stem Cell Isolation	\$111,375
BC024056	Lichy	Jack	Armed Forces Institute of Pathology	Inducible siRNA Vectors for Probing Signaling Pathways in Breast Cancer Cells	\$83,625
BC024105	Foulkes	William	McGill University	Identifying Early Events in BRCA2-Related Breast Cancer Using Isogenic Cell Lines	\$94,879
BC024112	Koniaris	Leonidas	University of Miami School of Medicine	MIC-1, a Potential Inhibitor of Breast Tumor Progression	\$113,625
BC024114	Macleod	Carol	University of California, San Diego	Biological and Genetic Analysis of a New Model for Breast Premalignancy	\$114,000

BC024118	Fong	Yuman	Memorial Sloan-Kettering Cancer Center	Herpes Viruses and Lymphatic Metastases	\$118,875
BC024124	Avraham	Shalom	Beth Israel Deaconess Medical Center, Boston	Genetic Instability of Breast Cancer Cells Induced by Aberrant Expression of HMPS1	\$127,500
BC024128	Hardman	Wanda	Pennington Biomedical Research Center	A Dietary Strategy to Delay or Prevent Mammary Cancer	\$110,250
BC024145	Hill	Steven	Tulane University	Clock, Circadian Rhythms, and Breast Cancer	\$111,375
BC024154	Lee	Tae-Hee	Beth Israel Deaconess Medical Center, Boston	Unusual Survival Signaling by Vascular Endothelial Growth Factor in Metastatic Breast Cancer Cells: The Existence of Internal Autocrine Survival System in Cancer	\$127,500
BC024180	Hauschka	Peter	Children's Hospital, Boston	Pericyte Support of Breast Cancer Metastasis	\$121,500
BC024190	Taylor	Alice	Garden State Cancer Center	Inhibition of PIGF-Mediated Angiogenesis in Breast Cancer	\$146,250
BC024220	Carthew	Richard	Northwestern University	Potential Role of Chibby as a Tumor Suppressor in Breast Cancer	\$111,375
BC024229	Brown	Anthony	Cornell University, Weill Medical College	Origin of Stem Cells in the Adult Mammary Gland	\$127,125
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC024242	Vaughn	James	Wake Forest University School of Medicine	A Novel Synthetic Biodiversity System to Generate and Select Breast Cancer Therapeutic Peptides	\$107,906
BC024244	Panchapakesan	Balaji	University of Delaware	Application of Nanoparticles/Nanowires and Carbon Nanotubes for Breast Cancer Research	\$113,250
BC024258	Barsky	Sanford	University of California, Los Angeles	The Origin and Significance of Mammary Intraductal Foam Cells	\$114,375
BC024264	Burton	Frank	University of Minnesota, Twin Cities	"Cluster Bombing" of Neighbor Antioxidant and Breast Tumor Suppressor Loci	\$92,316
BC024285	Kretschmar	Marcus	Mount Sinai School of Medicine, New York	The Role of Alternative Receptors in the Promotion of Bone Metastasis by Transforming Growth Factor-beta (TGF-beta)	\$127,125
BC024288	Mehta	Shashi	Roger Williams General Hospital	Synergistic Cytotoxicity of Human Breast Cancer Cells by a Novel Nanoparticle-Based Delivery of Ceramide with Paclitaxel and/or Doxorubicin	\$131,625
BC024299	Haviv	Izhak	University of Melbourne	The Tumorigenic Potential of Reconstituted Tissues with Predefined Cellular Histology: A Model for Tumor Invasion	\$77,016
BC024303	Briskin	Cathrin	Swiss Institute for Experimental Cancer Research	The Role of Vertical Cell Divisions in the Breast Epithelium	\$118,500
BC024304	Hall	Per	Karolinska Institute	Breast Cancer – a Disease of a Susceptible Subgroup of Women	\$115,762
BC024308	Guo	Peixuan	Purdue University	Bacteriophage Phi29 Nanomotor pRNA as a Carrier for Breast Cancer Therapeutics	\$112,501
BC024311	Deng	Chuxia	Foundation for Advanced Education in the Sciences	Mammary Tumor Metastasis Study Using BRCA1 Conditional Mutant Mice	\$80,250
BC024321	O'Connell	Peter	Virginia Commonwealth University	MTA1-Regulated Gene Expression: New Markers of Breast Cancer Metastasis	\$112,500

BC024326	Batinic-Haberle	Ines	Duke University	Inhibition of Nitric Oxide Synthase through Depletion of Its Cofactor Tetrahydrobiopterin as a Novel Strategy for Breast Cancer Anti-Angiogenic Therapy	\$115,500
BC024347	Palmer	Matthew	Beth Israel Deaconess Medical Center, Boston	Bisphosphonate-Based Contrast Agents for Radiological Imaging of Microcalcifications	\$127,500
BC024387	Artandi	Steven	Stanford University	Chromosomal Instability and Telomerase Reactivation in Sporadic Breast Cancer	\$122,483
Log Number	Last Name	First Name	Institution	Proposal Title	Award Amount
BC024398	Kendra	Kari	Ohio State University	The Combined Impact of Surgery and Immunomodulation with Low Dose Cytosan and GM-CSF in the Early Treatment of Breast Cancer	\$110,625
BC024404	Martin	Mary Beth	Georgetown University	Targeting Expression of Estrogen Receptor (A) for Therapy	\$116,400
BC024413	Chodosh	Lewis	University of Pennsylvania	Inducible Transgenic Models of Myoepithelial Cell Suppression of Mammary Tumorigenesis	\$118,875
BC024424	Tainsky	Michael	Wayne State University	Proteomic Approaches to Early Detection of Breast Cancer	\$113,250
BC024430	Theoharides	Theoharis	Tufts University School of Medicine	Role of Mast Cells in Mammary Gland Carcinogenesis	\$118,875
BC024495	Edington	Howard	University of Pittsburgh	Polymer-Based Adjuvant Therapy for Breast Conservation	\$109,212
BC024496	Lubahn	Dennis	University of Missouri, Columbia	New Estrogen Receptors in Breast Cancer	\$106,671
BC024503	Sultan	Ahmed	Georgetown University	Transcription Factor STAT5, a Novel Therapeutic Protein, Inhibits Metastatic Potential and Invasive Characteristics of Human Breast Cancer Cells	\$116,400
BC024511	Ladas	John	Beth Israel Deaconess Medical Center, Boston	Structural Basis for the BRCA1 Interaction with Branched DNA	\$127,500
BC024521	Freeman	Jenny	Hypermed, Inc.	Evaluation of Hyperspectral Imaging as a Tool for Identifying Breast Cancer Tissue in Situ	\$101,676
BC024523	Zhao	Yunge	Florida State University	Promoting Breast Cancer Cell Invasion by Matrix Metalloproteinase-26 in a Novel Three-Dimensional PVA Sponge Culture System	\$106,810
BC024597	Zharov	Vladimir	University of Arkansas for Medical Sciences	Nano-Photothermolysis of Breast Tumors	\$106,500
BC024609	Chen	Si-Yi	Baylor College of Medicine	Targeted Killing of Breast Tumor Stem Cells	\$112,875
BC024625	Iruela-Arispe	Luisa	University of California, Los Angeles	Targeting Bone Marrow-Derived Endothelial Cell Progenitors to Suppress Neovascularization in Breast Tumors	\$114,375
BC024643	Molloi	Sabee	University of California, Irvine	Automated Area Beam Equalization Mammography for Improved Imaging of Dense Breasts	\$113,625

Exploration Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020373	Srivastava	Rakesh	University of Maryland, Baltimore	Development of Novel Death Receptor-5 Binding Molecules	\$222,750
BC020386	Sakamoto	Kathleen	University of California, Los Angeles	Targeting the Estrogen Reception for Ubiquitination and Degradation in Breast Cancer Cells	\$222,838
BC020453	Testa	Stephen	University of Kentucky	Repairing RNA Transcripts That Mediate Breast Cancer Susceptibility	\$155,125
BC020536	Radice	Glenn	University of Pennsylvania	Cellular Origin of Breast Tumors with Invasive Potential	\$237,750
BC020650	Johnson	Michael	Georgetown University	Antibody-Induced Perturbation - A New Method to Identify Pathways in Breast Cancer Progression, Invasion, and Metastasis	\$232,576
BC020702	Blume	Scott	University of Alabama at Birmingham	Discovery of Sequence-Specific Modulators of Translational Efficiency Contributing to the Pathogenesis of Human Breast Cancer	\$217,500
BC020708	Synold	Timothy	City of Hope Beckman Research Institute	In Vivo Imaging of mdrla Gene Expression	\$262,449
BC020720	Thorburn	Andrew	Wake Forest University School of Medicine	Gene Targeting in Normal Human Breast Epithelial Cells	\$214,445
BC020760	Farnham	Peggy	University of Wisconsin, Madison	Characterization of the Role of JJAZ1 in Human Breast Cancer	\$214,719
BC020820	Douglas	Joanne	University of Alabama at Birmingham	Treatment of Primary and Metastatic Breast Cancer by an Armed Replicating Adenoviral Vector	\$217,500
BC020862	Andrews	David	McMaster University	Peptide Aptamers as Modulators of Bax Mediated Apoptosis in Breast Cancer Cells	\$167,552
BC020998	Dovich	Norman	Washington University	The Single Cell Proteome Project - Cell-Cycle Dependent Protein Expression in a Breast Cancer Cell Line	\$222,622
BC021086	Sano	Takeshi	Beth Israel Deaconess Medical Center, Boston	Agents Possessing Multiple Killing Mechanisms for the Eradication of Breast Cancer Cells	\$254,897
BC021198	Gross	Robert	University of Rochester	Chemotherapy Agents and the Inhibition of Neuronal Birthing in the Brain--The Cause of "Chemo Brain"	\$236,250
BC021794	Sgroi	Dennis	Massachusetts General Hospital	Gene Expression Profiling of Breast Cancer Stroma	\$255,340
BC021815	Cole	Charles	Dartmouth College	Micro RNAs in Normal and Malignant Human Breast Cells	\$235,337
BC021935	Chang	Eric	Baylor College of Medicine	Int6 Is a Potential Tumor Suppressor for Breast Cancer	\$246,860
BC022088	Paulsen	Keith	Dartmouth College	Exploratory Studies of Magnetic Resonance Microwave Absorption Imaging for the Breast	\$212,015
BC022118	Miller	George	University of Tulsa	Evaluation of Cavity Ringdown Spectroscopy as a Potential Noninvasive Breath Diagnostic for Breast Cancer	\$200,250
BC022146	Plon	Sharon	Baylor College of Medicine	Genetic Screens in Yeast to Identify BRCA1 Modifiers	\$198,173

Idea Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020115	Hu	Yanfen	University of Virginia	Cooperation between BRCA1 and JunB in Gene Regulation and Tumor Suppression	\$444,000
BC020161	Pietras	Richard	University of California, Los Angeles	Antiangiogenic Steroids and Growth Factor Receptors in Human Breast Cancer Therapy	\$457,500
BC020201	Adami	Hans-Olov	Karolinska Institute	A Prospective Study of Acrylamide Contaminated Food and Breast Cancer Risk	\$191,581
BC020213	Schulman	Brenda	St. Jukes Children's Research Hospital	Developing a Bisubstrate Analog Inhibitor of Cyclin A	\$450,000
BC020251	Cnattingius	Sven	Karolinska Institute	Childbirth and Subsequent Risk of Breast Cancer: The Influence of Pregnancy, Placental, and Birth Characteristics. A Population-Based Swedish Study	\$287,806
BC020252	Herlyn	Dorothee	Wistar Institute	Cytolytic T Lymphocytes in Organotypic Breast Carcinoma Culture	\$543,143
BC020257	Brewer	Gary	University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School	RNA-Binding Proteins as Novel Oncoproteins and Tumor Suppressors in Breast Cancer	\$430,450
BC020308	Li	Frederick	Dana-Farber Cancer Institute	Proteomic Analyses of Nipple Fluids for Early Detection of Breast Cancer	\$512,509
BC020320	Holloman	William	Cornell University, Weill Medical College	Genetic Analysis of BRCA2 Function in a Fungal Model System	\$508,500
BC020338	Dent	Paul	Virginia Commonwealth University	Combined Inhibition of Chk1 and MEK1/2 Leads to Tumor Cell Death in Vivo	\$441,564
BC020347	Nandi	Satyabrata	Lawrence Berkeley National Laboratory	A Rat Model for Human Ductal Carcinoma in Situ	\$456,000
BC020387	Umbricht	Christopher	Johns Hopkins University, East Baltimore Campus	Gene Expression Profiles in Preinvasive Breast Cancer	\$489,171
BC020389	Ghandehari	Hamid	University of Maryland, Baltimore	Silk-Elastinlike Copolymers for Breast Cancer Gene Therapy	\$437,491
BC020428	Chan	Andrew	Mount Sinai School of Medicine, New York	Modulation of PTEN Tumor Suppressor Activity in Breast Cancer	\$446,425
BC020480	Boyer	Thomas	University of Texas Health Science Center at San Antonio	BRCA1 Regulation of Estrogen Signaling in the Breast	\$433,182
BC020488	Lau	Yun-Fai Chris	Northern California Institute for Research and Education	Mitochondrial Structure and Reactive Oxygen Species in Mammary Oncogenesis	\$452,649
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020504	Makrigiorgos	Mike	Dana-Farber Cancer Institute	Expression and Genomic Profiling of Minute Breast Cancer Samples	\$512,995
BC020507	Dou	Q. Ping	Wyane State University	Synthetic Beta-Lactam Antibiotics as a Selective Breast Cancer Cell Apoptosis Inducer: Significance in Breast Cancer Prevention and Treatment	\$491,999

BC020530	Weaver	Valerie	University of Pennsylvania	Adhesion-Linked Protein Tyrosine Phosphatases, Morphogenesis and Breast Cancer Progression	\$475,500
BC020564	Park	Ben	Johns Hopkins University, East Baltimore Campus	Exploiting Genomic Instability to Identify Genetic Mediators of Drug Resistance	\$490,500
BC020612	Duffy	Haopeng	SUNY at Stony Brook	Identify and Characterize Breast Cancer Related Cancer/Testis Antigens	\$489,592
BC020634	Esteva	Francisco	University of Texas M.D. Anderson Cancer Center	Proteomic Analysis to Identify Novel Circulating Breast Cancer Markers	\$322,896
BC020641	Li	Lihua	University of South Florida	Computerized Analysis and Detection of Missed Cancer in Screening Mammogram	\$489,932
BC020646	Mayer	Bruce	University of Connecticut, Farmington	Probing the Tyrosine Phosphorylation State in Breast Cancer by Src Homology 2 Domain Binding	\$435,000
BC020675	Cardelli	James	Louisiana State University Health Science Center	A Role for TIMP-1 in Breast Cancer Progression	\$435,000
BC020681	Murphy	William	University of Nevada, Reno	Chemokine Blockade in Combination with Cytoreductive Conditioning in Metastatic Breast Cancer	\$435,000
BC020694	Fulton	Amy	University of Maryland, Baltimore	Immune Modulation by Cyclooxygenase Inhibitors	\$445,500
BC020710	Buist	Diane	Group Health Cooperative of Puget Sound	A Population-Based Randomized Trial to Assess the Effects of Short-Term Cessation of HRT on Mammography Assessments and Breast Density	\$963,750
BC020713	Glaser	Sally	Northern California Cancer Center	Human Leukocyte Antigen (HLA) Genotype as a Contributor to Racial/Ethnic Differences in Breast Cancer: A Population-Based, Molecular Epidemiologic Study	\$398,134
BC020777	Cryns	Vincent	Northwestern University Medical School	HspB2: A Novel Inhibitor of TRAIL-Induced Apoptosis in Breast Cancer	\$445,776
BC020800	Sarcevic	Borislav	Garvan Institute of Medical Research	The Role of CDK-Mediated Phosphorylation of RBP1 and RBP1alpha in Cell Cycle Progression and Breast Cancer	\$299,082
BC020808	Wong	Franklin	University of Texas M.D. Anderson Cancer Center	Radiation Dosimetry from Intratumoral Injection of Radionuclides in Human Breast Cancer	\$300,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020836	Lee	William	University of Pennsylvania	Targeting Tie2 to Increase Breast Cancer Responsiveness to Antiangiogenic Therapy	\$475,500
BC020911	Godwin	Andrew	Fox Chase Cancer Center	The Nuclear Death Domain Protein p84N5; a Candidate Breast Cancer Susceptibility Gene	\$504,000
BC020917	Ruf	Wolfram	Scripps Research Institute	Suppression of Breast Cancer Progression by Tissue Factor	\$555,600
BC020927	Estes	Don	University of Texas Medical Branch, Galveston	Estrogenic Regulation of Natural Killer Cells - A Potential Therapeutic Target for the Prevention and Treatment of Breast Cancer	\$422,704
BC020945	Yokomori	Kyoko	University of California, Irvine	Molecular Analysis of the DNA Damage Response Using Laser Microirradiation in Mammalian Cells	\$405,960
BC020953	Lucci	Anthony	Baylor College of Medicine	A Model of COX-2 Mediated Bone Metastasis in Human Breast Cancer	\$451,500

BC021010	Velie	Ellen	Michigan State University	The Effect of a Low-Fat Dietary Intervention on Insulin-Related Biomarkers among Adolescent Girls in the Dietary Intervention Study in Children (DISC)	\$409,674
BC021037	Hathaway	Helen	University of New Mexico	Regulation of Junctional Complex Formation in Mammary Epithelia by Cell Surface (beta)1,4-Galactosyltransferase 1	\$450,000
BC021042	Perkins	Archibald	Yale University	Rapid Genomic Approach to Discovery of Oncogenes in Breast Cancer	\$490,500
BC021051	Itoh	Masahiko	Lawrence Berkeley National Laboratory	Identification of the Molecular Determinants of Breast Epithelial Cell Polarity	\$516,366
BC021089	Muller	William	McGill University	ER "(alpha)" and ErbB-2 "Cross-Talk" in Mammary Tumorigenesis and Metastasis	\$388,350
BC021117	Davis	Trisha	Washington University	The Role of the Centrosomal Component Pericentrin-370 in Initiation and Progression of Breast Cancer	\$454,800
BC021133	Prendergast	George	Lankenau Medical Research Center	Breast Cancer Suppression by IDO Inhibitors	\$450,000
BC021141	Wieder	Robert	University of Medicine and Dentistry of New Jersey, Newark	Overcoming Bone Marrow Stroma-Mediated Chemoresistance in Metastatic Breast Cancer Cells	\$486,564
BC021157	Campisi	Judith	Buck Center for Research in Aging	Cellular Senescence and Breast Cancer	\$582,000
BC021171	Rotello	Vincent	University of Massachusetts, Amherst	Inductive Magnetic Heating of Metallic Nanoparticles	\$456,255
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC021175	Bafico	Anna	Mount Sinai School of Medicine, New York	Canonical and "Noncanonical" Wnt Signaling in Human Breast Cancer	\$508,499
BC021200	Erdman	Arthur	University of Minnesota, Twin Cities	Development of a Device for the Excision of Breast Tumors with Real-Time Magnetic Resonance Imaging Guidance	\$417,462
BC021222	Powell	Jonathan	Johns Hopkins University, East Baltimore Campus	Selective Inhibition of T Cell Tolerance as a Means of Enhancing Tumor Vaccines in a Mouse Model of Breast Cancer	\$490,500
BC021245	Zhao	Dawen	University of Texas Southwestern Medical Center at Dallas	Therapeutic Vascular Targeting and Irradiation: Correlation of MRI and Tissue Changes at Cellular and Molecular Levels to Optimizing Outcome	\$468,000
BC021276	Bessho	Tadayoshi	University of Nebraska	Biochemical Characterization of BRCA2	\$414,115
BC021286	Franke	Thomas	Columbia University	AKT Kinase Substrates in Locally Advanced Breast Cancer Disease: Implications for Treatment and Prognosis	\$490,500
BC021292	Baldwin	Albert	University of North Carolina, Chapel Hill	Non-Classical NF-kappa-B Forms and Bcl-3 in Breast Cancer Development and Resistance to Cancer Therapy	\$424,978
BC021307	Clark	Douglas	University of California, Berkeley	Parallel Synthesis and Biocatalytic Amplification of Marine-Inspired Libraries: An Integrated Approach toward Discovering New Chemotherapeutics	\$388,191
BC021319	Tilley	Wayne	University of Adelaide	The Role of Androgen Receptor Signaling in Breast Cancer	\$370,550

BC021320	Thompson	Erik	University of Melbourne	Molecular Markers for Epithelio-Mesenchymal Transition in Human Breast Cancer	\$374,788
BC021325	Robbins	Paul	University of Pittsburgh	Protein Transduction-Based Therapies for Breast Cancer	\$434,932
BC021371	Lamartiniere	Coral	University of Alabama at Birmingham	Proteomic Analysis of Genistein Mammary Cancer Chemoprevention	\$428,249
BC021384	Neel	Benjamin	Beth Israel Deaconess Medical Center, Boston	Role of PTPs in Normal and Neoplastic Breast Cancer	\$510,000
BC021415	Bai	Wenlong	University of South Florida	Novel Role of p38-Mediated ER Phosphorylation in Specifying Coactivator/Corepressor Recruitment and the Tissue Selective Activity of Tamoxifen	\$432,035
BC021449	Denmeade	Samuel	Johns Hopkins University, East Baltimore Campus	Identification of Breast Cancer-Specific Proteolytic Activities for Targeted Prodrug Activation	\$490,500
BC021455	Chodosh	Lewis	University of Pennsylvania	BRCA1 in Developmental Stage-Specific Breast Cancer Risk	\$474,497
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC021464	Kinlaw	William	Dartmouth College	S14 as a Therapeutic Target in Breast Cancer	\$474,000
BC021506	Welsh	Joellen	University of Nortre Dame	Novel Functions of VDR in Breast Cancer	\$432,039
BC021518	Clarke	Michael	Michigan State University	Identification and Characterization of Tumor-Initiating Breast Cancer Cells	\$424,406
BC021524	Gorski	David	University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School	Inhibition of Breast Cancer-Induced Angiogenesis by a Diverged Homeobox Gene	\$466,500
BC021526	Bennett	Craig	Duke University Medical Center	A Functional Genomics Approach to Identify Novel Breast Cancer Gene Targets in Yeast	\$447,887
BC021540	Schneider	Robert	New York University School of Medicine	Hypoxia, Protein Synthesis and Malignant Progression in Breast Cancer	\$506,500
BC021590	Liu	Fang	Rutgers University	TGF- β Resistance in Breast Cancer	\$466,500
BC021620	Lannigan	Deborah	University of Virginia	The Protein Kinase Rsk2, a Novel Drug Target for Breast Cancer	\$425,901
BC021636	Mertz	Janet	University of Wisconsin, Madison	Estrogen-Related Receptor Alpha in Breast Cancer	\$434,934
BC021646	Haslam	Sandra	Michigan State University	Molecular Mechanism of Loss of Estrogen Responsiveness in Estrogen Receptor Positive Breast Cancer Cells on Laminin	\$448,000
BC021647	Maxwell	Annette	University of California, Los Angeles	Increasing Adherence to Follow-up of Breast Abnormalities in Low-Income Korean American Women: A Randomized Controlled Trial	\$953,125
BC021655	Satterthwait	Arnold	Burnham Institute	Targeting Drug and Gamma-Radiation Resistant Breast Cancer with TR3 Peptides	\$594,000
BC021672	Press	Michael	University of Southern California	Assessment of Topoisomerase II Alpha Gene Amplification and Responsiveness to Anthracycline Chemotherapy	\$487,492
BC021701	Shen	Zhiyuan	University of New Mexico	Regulation of Cell Cycle by BCCIP, a BRCA2 and CDKN1 (p21) Interacting Protein	\$450,000

BC021754	Gillespie	Matthew	St. Vincent's Institute of Medical Research	Role of Osteoprotegerin in Breast Cancer Growth in Bone	\$349,530
BC021772	Stern	David	Yale University	Chk2 Protein Kinase in Chromosomal Instability	\$490,500
BC021786	Borowiec	James	New York University School of Medicine	Regulation of MDM2 Activity by Nucleolin	\$501,696
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC021792	Helferich	Bill	University of Illinois, Champaign/Urbana	Interaction of Dietary Genistein, Equol, and Aromatase Inhibitors on Growth of Estrogen-Dependent Human Breast Cancer (MCF-7Ca) Cell in Athymic Mice	\$455,341
BC021795	Garber	Judy	Dana-Farber Cancer Institute	A Randomized Study of the Effects of Tibolone on Bone Density, Menopausal Symptoms, and Breast Density in High-Risk Women after Prophylactic Oophorectomy	\$395,025
BC021801	Mazuruk	Konstanty	University of Alabama in Huntsville	Novel Magnetic Fluids for Breast Cancer Therapy	\$403,698
BC021833	Zheng	Gang	University of Pennsylvania	Near-Infrared Fluorescence Imaging Guided Therapy: Molecular Beacon Based Photosensitizers Triggered by Breast Cancer-Specific mRNA	\$472,517
BC021912	Lokshin	Anna	University of Pittsburgh	Integrated Development of Serum Molecular Makers for Early Diagnosis of Breast Cancer	\$439,745
BC021952	Yang	Lily	Emory University	Early Detection of Breast Cancer Using Molecular Beacons	\$452,880
BC021986	Lee	Jonathan	Hamilton Regional Cancer Centre	The Role of Protein Elongation Factor EEF1A2 in Breast Cancer	\$388,194
BC022000	Ahsan	Habibul	Columbia University	CHEK2*1100delC Variant and Breast Cancer Risk	\$489,605
BC022001	Mason	Ralph	University of Texas Southwestern Medical Center at Dallas	Breast Cancer Gene Therapy: Development of Novel Noninvasive Magnetic Resonance Assay to Optimize Efficacy	\$468,000
BC022040	Thompson	Hayley	Mount Sinai School of Medicine, New York	Increasing Breast Cancer Surveillance among African American Breast Cancer Survivors	\$875,763
BC022053	Clinton	Gail	Oregon Health Sciences University	Effects of Herstatin, an Alternative HER-2 (ErbB-2) Product, on Hormonal Responsiveness of Breast Cancer	\$452,886
BC022063	Deisseroth	Albert	Sidney Kimmel Cancer Center	Vectors for Treatment of Metastatic Breast Cancer	\$577,781
BC022095	Lieberman	Paul	Wistar Institute	Function of BRCA1 at a DNA Replication Origin	\$513,154
BC022099	Olopade	Olufunmilayo	University of Chicago	Protein Structure and Breast Cancer	\$472,555
BC022117	Phelps	William	Ribonomics, Inc.	The Discovery of Novel Targets in Breast Cancer through Interrogation of Ribonomic Clusters	\$420,000
BC022158	Kufe	Donald	Dana-Farber Cancer Institute	Idea: MUC1 Functions as an Oncogene by Targeting the Nucleus of Human Breast Cancer Cells	\$512,851
BC022181	Sridhar	Rajagopalan	Howard University	Strategies for Treatment of Bone Metastases from Breast Cancer	\$376,399

BC022226	Watts	Colin	Garvan Institute of Medical Research	Mechanism of Action of a Mammary Gland-Specific Plant Toxin, a Potential Breast Cancer Therapy	\$296,309
BC022335	Das	Salil	Meharry Medical College	Is Peripheral Benzodiazepine Receptor (PBR) Gene Expression Involved in Breast Cancer Suppression by Dietary Soybean Protein?	\$433,500
BC022336	Lipkus	Isaac	Duke University Medical Center	The Effects of Information Displays in Decisions about Tamoxifen Use for Breast Cancer Chemoprevention	\$446,616

***Historically Black Colleges and Universities/Minority Institutions Partnership
Training Awards***

Log Number	Last Name	First Name	Insitution	Title	Award Amount
BC020050	Thompson	Winston	Morehouse School of Medicine	Antiproliferative Bio-Markers in Breast Cancer	\$850,925
BC022338	Peltz	Gerson	University of Texas at Brownsville	Interrelationships of Hormones, Diet, Body Size and Breast Cancer among Hispanic Women	\$1,000,000

Physician-Scientist Training Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020102	Domchek	Susan	University of Pennsylvania	Universal Breast Cancer Antigens as Targets Linking Early Detection and Therapeutic Vaccination	\$525,307
BC020175	Truica	Cristina	Vanderbilt University	EGFR Pathway Modulation in Ductal Carcinoma in Situ of the Breast	\$430,498
BC020787	Kauff	Noah	Memorial Sloan-Kettering Cancer Center	Modifiers of the Efficacy of Risk-Reducing Salpingo-Oophorectomy for the Prevention of Breast and Ovarian Cancer in Carriers of BRCA1 and BRCA2 Mutations	\$649,912
BC020947	Lombardi	Donald	University of Texas Southwestern Medical Center at Dallas	The Tetraspanin Metastasis Suppressor Gene, KAI1/CD82, and the Proto-Oncogene, HER2/neu, as Molecular Determinants of Metastasis in Breast Cancer Patients	\$371,916
BC022112	Hartman	Anne-Renee	Stanford University	Determinants of Genomic Instability in Women with BRCA1 Mutations Undergoing Comprehensive Breast Cancer Screening	\$30,820
BC022257	Cheville	Andrea	University of Pennsylvania	Assessment of Lymphedema Risk following Lymph Node Dissection and Radiation Therapy for Primary Breast Cancer	\$478,267
BC022262	Sabel	Michael	University of Michigan	Immunologic Response to Cryoablation of Breast Cancer	\$504,346

Postdoctoral Traineeship Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020107	Ohta	Rieko	Medical University of South Carolina	The Complement System and Immune Response to Breast Cancer	\$165,804
BC020113	Chandrasekharan	Subhashini	University of North Carolina, Chapel Hill	The Role of Prostanoids in the Normal Development and Malignant Growth of Mammary Epithelium	\$170,964
BC020159	Shawber	Carrie	Columbia University	NOTCH and VEGF Interactions in Breast Cancer	\$171,000
BC020190	Dehghani	Hamid	Dartmouth College	Three-Dimensional Reconstruction Algorithm for Imaging Pathophysiological Signals within Breast Tissue Using Near Infrared Light	\$171,000
BC020248	Brantley	Dana	Vanderbilt University	The Role of EphA2 Receptor Tyrosine Kinase in Breast Tumor Angiogenesis	\$170,906
BC020264	Vargo-Gogola	Tracy	Baylor College of Medicine	P190-B, a Novel RhoGAP, in Mammary Gland Development and Breast Cancer Progression	\$171,000
BC020457	Krejci	Lumir	Yale University	Role of Rad51-Mediated Interactions in Recombination	\$170,844
BC020494	Schaffer	Beverly	University of Nebraska	Characterization of Genetic Modifiers of Estrogen-Induced Mammary Cancer	\$171,000
BC020513	Dudkin	Vadim	Memorial Sloan-Kettering Cancer Center	Targeting Breast Cancer by Active Immunotherapy: Chemical Synthesis of Multiantigenic Unimolecular Antitumor Vaccines	\$171,000
BC020517	Marozkina	Nadzeya	University of Virginia	The Impact of Tyrosine Kinase Signaling on Breast Cancer Development	\$120,831
BC020528	Bhat	Ishfaq	Evanston Northwestern Healthcare Research Institute	The Role of Maml1 in p53-Mediated DNA Damage Response	\$171,000
BC020559	Saunders	Darren	Garvan Institute of Medical Research	The Role of the Human 'Hyperplastic Discs' Gene, EDD, in Breast Cancer Cell Proliferation, Mammary Gland Development, and Tumorigenesis	\$161,940
BC020565	Shi	Qian	Dana-Farber Cancer Institute	Biomarker Discovery in Serum Using Proteomics Analysis for Early Detection of Breast Cancer	\$171,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020643	Yang	Xinhai	Boston University, Boston Campus	The Role of AhR in Breast Cancer Development	\$162,151
BC020649	Yang	Zeng-Quan	University of Michigan	Characterization of Novel Genes within 8p11-12 Amplicon in Breast Cancer	\$167,577
BC020654	Herynk	Matthew	Baylor College of Medicine	Prognostic Value of the K303R Estrogen Receptor Alpha Mutation in Breast Cancer	\$170,999
BC020655	Gupta	Vandana	Massachusetts General Hospital	Mullerian Inhibiting Substance (MIS) Augments IFN-Gamma Mediated Inhibition of Breast Cancer Cell Growth	\$171,000

BC020659	Jiang	Shiming	Baylor College of Medicine	Dynamics of SAFB Interaction with ER on Estrogen Target Genes	\$171,000
BC020661	Gunawardane	Ruwanthi	Harvard University, Boston	Identification and Characterization of Novel Genes Involved in Migration of Mammary Epithelia	\$162,567
BC020712	Masckauchan	T. Nestor	Columbia University	Activation of Alternative Wnt Signaling Pathways in Human Mammary Gland and Breast Cancer Cells	\$170,999
BC020715	Brummer	Tilman	Garvan Institute of Medical Research	The Role of the GAB2 Docking Protein in Human Breast Cancer	\$167,084
BC020728	Dang	Tongyun	Duke University Medical Center	Identification and Characterization of the Receptor for Periostin	\$171,000
BC020771	Lou	Zhenkun	Mayo Clinic and Foundation, Rochester	Functional Analysis of Chk2-Kiaa0170 Interaction	\$171,000
BC020806	Rangarajan	Annapoorni	Whitehead Institute for Biomedical Research	The Role of Notch Signaling in Breast Cancer Pathogenesis	\$170,137
BC020841	Castro-Rivera	Emely	University of Texas, Southwestern Medical Center at Dallas	The Role of Semaphorin 3B (SEMA3B) in the Pathogenesis of Breast Cancer	\$171,000
BC020822	Pettersson	Filippa	McGill University	Nuclear Receptor Interactions in Breast Cancer: The Role of Kinase Signaling Pathways	\$164,175
BC020856	Xiang	Bin	Cold Spring Harbor Laboratory	Mechanisms by which Distinct ErbB Receptor Homo- and Heterodimers Reinitiate Proliferation in Growth-Arrested, Polarized, Epithelial Structures	\$171,000
BC020864	Yuan	Hong	Duke University Medical Center	Evaluation of Copper-64-ATSM for Detecting Tumor Hypoxia and Predicting Individual Tumor Outcome	\$171,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020880	Keeton	Erika	Dana-Farber Cancer Institute	Coactivator Requirements for SERM Action	\$144,000
BC020925	Fata	Jimmie	Lawrence Berkeley National Laboratory	Mechanisms of Matrix Metalloproteinase-Mediated p53 Regulation	\$171,000
BC020994	Fordyce	Colleen	University of California, San Francisco	Prognostic Value of Telomere DNA Content in Ductal Carcinoma in Situ	\$162,520
BC021007	Qin	Lanfang	Baylor College of Medicine	Role of the Signaling Intermediate FKHR in Repressing Estrogen Receptor Signaling and Breast Cancer Pathogenesis	\$171,000
BC021063	Jobling	Michael	Lawrence Berkeley National Laboratory	Bioavailability of TGF-beta in Breast Cancer	\$171,000
BC021074	Kwek	Serena	University of California, San Francisco	Identification and Functional Studies of Oncogenes Co-Amplified in Breast Cancer	\$165,322
BC021077	Han	Bumsoo	University of Minnesota	Investigation of Thermal Thresholds for Breast Cancer Treatment by Minimally Invasive Surgery Techniques	\$170,795
BC021144	Jeay	Sebastien	Boston University, Boston Campus	Inhibition of Ras Transformation by Lysyl Oxidase in Breast Cancer: Role of NF-kappa-B	\$170,994
BC021178	Kinnard	Lisa	Howard University	Computer-Aided Detection of Mammographic Masses in Dense Breast	\$129,955

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BC021229	Yang	Chengfeng	University of Pennsylvania	Effect of Chimaerins, Novel Receptors for Phorbol Esters, on Breast Cancer Cell Proliferation and Cell Cycle Progression	\$171,000
BC021284	Boyapati	Sonia	Vanderbilt University	Soy Food Intake, Tamoxifen Use, Estrogen Receptor Polymorphism, and Breast Cancer Survival	\$155,058
BC021285	Lum	David	University of California, San Francisco	Characterization of a Novel Family of Extracellular Sulfatases and the Examination of Their Role in Breast Cancer Progression	\$170,935
BC021304	Welm	Bryan	University of California, San Francisco	The Analysis of Cell Population Dynamics in Mammary Gland Development and Tumorigenesis	\$170,349
BC021367	Huang	Yi	Johns Hopkins University, East Baltimore Campus	Antineoplastic Efficacy of Novel Polyamine Analogues in Human Breast Cancer	\$171,000
BC021423	Chrestensen	Carol	University of Virginia	The Role of MAPK-Activated Protein Kinases in Breast Cancer	\$169,424
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC021472	Han	Daikwon	State University of New York, Buffalo	Integrating Geographic Information Systems (GIS) into Breast Cancer Epidemiologic Research	\$170,999
BC021496	Li	Chao	Baylor College of Medicine	Steroid Effects on Transcription Elongation and the Relationship to Breast Cancer	\$171,000
BC021555	Parker	Belinda	University of Melbourne	Stromal Gene Expression and Function in Primary Breast Tumors That Metastasize to Bone Cancer	\$170,711
BC021594	Mikule	Keith	University of Massachusetts Medical Center	Building Breast Cancer: Dissecting the Contribution of Pericentrin and Its Binding Partners to Chromosome Instability and Tumorigenesis	\$171,000
BC021705	Shou	Zhenyu	Stanford University	Multiple Aperture Radiation Therapy (MART) for Breast Cancer	\$114,000
BC021782	Samuelson	David	University of Wisconsin, Madison	Genetic Characterization of Two Genetic Loci Conferring Resistance to Mammary Cancer in a Rat Model	\$162,171
BC021842	Mattison	Christopher	University of Colorado, Boulder	Role of Mps1 Kinase in Centrosome Defects and Breast Cancer	\$171,000
BC021844	Bellows	David	Mount Sinai Hospital, Samuel Lunenfeld Research Institute	Anti-Cancer Drug Discovery Using Synthetic Lethal Chemogenetic (SLC) Analysis	\$147,690
BC021915	Umezu-Goto	Makiko	University of Texas M.D. Anderson Cancer Center	Role of Lysophospholipids in the Initiation, Progression, and Therapy of Breast Cancer	\$170,934
BC021916	Sarkar	Devanand	Columbia University	Novel Therapeutic Approach for Breast Cancer	\$171,000
BC021938	Beckerbauer	Lois	University of Nebraska	Expression and Promoter Methylation of p16Ink4A during Estrogen-Induced Mammary Carcinogenesis in the ACI Rat	\$171,000

BC021962	Kondraganti	Sudha	Baylor College of Medicine	Chemopreventive Effects of Curcumin and Sulforaphane on Formation of Mouse Mammary DNA Adducts and Tumors Induced by Polycyclic Aromatic Hydrocarbons	\$170,910
BC021980	Bechter	Oliver	University of Texas Southwestern Medical Center at Dallas	Alternative Lengthening of Telomeres in the Breast Cancer Prone Li-Fraumeni Syndrome	\$171,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC022020	Muruganandham	Manickam	Memorial Sloan-Kettering Cancer Center	Multi-Parametric Magnetic Resonance Imaging of Angiogenesis in Breast Cancer	\$170,999
BC022120	Geng	Xudong	Memorial Sloan-Kettering Cancer Center	Total Synthesis of Potent Antitumor Agent Pluraflavin A and Structure-Activity-Relationship Studies	\$171,000
BC022216	Zolov	Sergey	University of Arkansas for Medical Sciences	Role of the Conserved Ologomeric Golgi Complex in the Abnormalities of Glycoprotein Processing in Breast Cancer Cells	\$171,000
BC022276	Dassoro	Antonino	Mayo Clinic and Foundation, Rochester	Centrosome Amplification: A Potential Marker for Breast Cancer Aggressiveness	\$171,000
BC022309	Tisnado	Diana	University of California, Los Angeles	Quality of Breast Cancer Care: The Role of Hispanic Ethnicity, Language, and Socioeconomic Position	\$167,275

Predoctoral Traineeship Awards

Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020109	Goodrich	Jennifer	Princeton University	EGFR Activation by Spatially Restricted Ligands	\$90,000
BC020117	Tennis	Meredith	Georgetown University	Gene Environment Interactions in Women with Breast Cancer and Secondary Lung Cancer	\$90,000
BC020144	Kovacs	Jeffrey	Duke University Medical Center	Regulation of EGF Receptor Signaling by Histone Deacetylase 6 (HDAC6)-Mediated Reversible Acetylation	\$90,000
BC020172	Jurczyk	Agata	University of Massachusetts Medical School	Centrosome Defects, Genetic Instability, and Breast Cancer Progression	\$90,000
BC020182	Barnhart	Bryan	University of Chicago	The Role of Caspase-8 in Breast Carcinoma Cells	\$90,000
BC020196	Ramanathapuram	Lalitha	University of Arizona, Tucson	Vitamin E Succinate as an Adjuvant for Dendritic Cell Based Vaccines	\$90,000
BC020200	Archer	Caryl	Duke University	Development and Characterization of Novel Volumetric Acquisition Orbits with an Application Specific Emission Tomograph for Improved Breast Cancer Detection	\$90,000
BC020245	Catarious, Jr	David	Duke University Medical Center	Design and Clinical Efficacy of a Computer-Aided Detection Tool for Masses in Mammograms	\$90,000
BC020294	Fernandez-Gonzalez	Rodrigo	Lawrence Berkeley National Laboratory	Characterization of Label Retaining Cells and Their Niche in Normal Mouse Mammary Gland and Breast Cancer	\$90,000
BC020297	Jackson	James	University of Texas Health Science Center at San Antonio	The Role of MRG15 Overexpression in Human Breast Cancer Cell Lines	\$90,000
BC020309	Cerone	Maria Antonietta	McGill University	Use of Telomerase Inhibition in Combination with Anti-Cancer Drugs to Induce Cell Death in Tumor Cells	\$66,600
BC020353	Daley	Denise	Case Western Reserve University	Identification of Susceptibility Genes for Breast Cancer in a Whole Genome Scan Utilizing a Combined Breast Cancer and Colon Neoplasia Phenotype	\$90,000
BC020388	Rojas	Rafael	University of North Carolina, Chapel Hill	Rational Design of Rho Protein Inhibitors	\$90,000
BC020496	Stearns	Carrie	Cornell University, Ithaca	Role of the Non-Receptor Tyrosine Kinase ACK2 in EGF Receptor Degradation	\$90,000
BC020569	Chow	Felice	Duke University Medical Center	Characterization of the Roles of CaMKIV in Cell Differentiation, Apoptosis, and Cancer	\$90,000
BC020590	Truesdell	Peter	Queen's University	Determining the Function of the Fps/Fes Proto-Oncogene in Breast Development and Malignancy	\$90,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020594	Bilska-Wolak	Anna	Duke University Medical Center	A Likelihood Ratio Classifier for Computer-Aided Diagnosis in Mammography	\$90,000

BC020598	Moore	Marissa	Cold Spring Harbor Laboratory	Biological Effects of Activating Distinct ErbB Receptor Dimers in Polarized Growth-Arrested Epithelia	\$90,000
BC020615	Kim	Edward	Cold Spring Harbor Laboratory	Characterization of Molecular Factors Critical to the S100A4 (A Metastasis-Associated Protein) - Dependent Increase in Motility of Breast Cancer Cells	\$90,000
BC020636	Cotarla	Ion	Georgetown University	Nucleocytoplasmic Export of Stat5 in Normal and Malignant Mammary Epithelial Cells: Regulation and Implications in Breast Cancer	\$90,000
BC020640	Etheridge	Katherine	Duke University Medical Center	Telomerase Biogenesis	\$90,000
BC020657	Klemp	Jennifer	University of Kansas Medical Center, Kansas City	The Use of a Cognitive Protectant to Help Maintain Quality of Life and Cognition in Premenopausal Women with Breast Cancer Undergoing Adjuvant Chemotherapy	\$90,000
BC020693	Siddiqui	Khalid	Cold Spring Harbor Laboratory	Initiation of DNA Replication in Human Cells	\$90,000
BC020698	Rozenberg	Gabriela	University of Pennsylvania	Stromal-Epithelial Interactions and the Angiogenic Phenotype of Breast Cancer	\$89,997
BC020707	Perri	Sabrina	McGill University	Engineered Autologous Stromal Cells for the Delivery of Kringle 5, a Potent Endothelial Cell Specific Inhibitor, for Anti-Angiogenic Breast Cancer Therapy	\$89,400
BC020733	Keaton	Mignon	Duke University Medical Center	Characterization of the Reversible Ubiquitination Mediated by the Deubiquitinase UbpM in the DNA Damage Response Pathway	\$90,000
BC020745	Dolled-Filhart	Marisa	Yale University	Tissue Microarray-Based Investigation of Stat3 Signaling Pathway in Breast Cancer	\$89,997
BC020758	Kehn	Kylene	George Washington University	Consequences of Cyclin D1/BRCA1 Interaction in Breast Cancer Progression	\$90,000
BC020767	Sabolic	Nancy	McMaster University	Identification and Characterization of PEA3 Regulated Genes Involved in Breast Cancer	\$68,134
BC020785	Wyatt	Kristina	Vanderbilt University	Ectodomain Cleavage of ErbB-4, a Receptor Tyrosine Kinase	\$90,000
BC020845	Gaillard	Stephanie	Duke University Medical Center	The Role of Estrogen-Related Receptor in Modulating Estrogen Receptor-Mediated Transcription in Breast Cancer Cells	\$60,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC020865	Lucs	Alexandra	Cold Spring Harbor Laboratory	Determine the Mechanism by which Specific ErbB Receptor Dimers Differ in Their Ability to Disrupt Epithelial Cell Polarity	\$90,000
BC020935	Jang	Joanne	University of Pennsylvania	The Role of Ras in Myc-Induced Mammary Tumorigenesis	\$90,000
BC020961	Saadi	Wajeih	University of California, Irvine	Development of a Microfluidic Device for the Study of Breast Cancer Cell Migration	\$89,418
BC021009	Bogusz	Agata	University of Chicago	Role of Ubiquitination in the Activation of SGK 1	\$90,000
BC021095	Chen	Weijie	University of Chicago	Computerized Interpretation of Dynamic Breast MRI	\$90,000

BC021102	Steele	Sharon	Howard University	Psychological and Neuropsychological Predictors of "Noncompliance" to Mammography Screening among High-Risk African American Women	\$55,746
BC021128	Kim	Jae	University of Texas at Arlington	Monitoring of Breast Tumor Response to Local Chemotherapeutic Agent Delivered by Biodegradable Fibers	\$89,975
BC021143	Faivre	Emily	University of Minnesota, Twin Cites	Regulation of Cell Fate by Breast Tumor Kinase (BTK)	\$90,000
BC021154	Chen	Mercy	Baylor College of Medicine	Beta-Catenin: A Potential Survival Factor of Breast Cancer Stem Cells	\$90,000
BC021155	Liu	Hong	Lawrence Berkeley National Laboratory	Role of PI3 Kinase Signaling Pathways in Polarity Determination of Human Mammary Epithelial Cells Grown in Three-Dimensional Extracellular Matrix	\$90,000
BC021191	Aupperlee	Mark	Michigan State University	Functional Roles of PRA and PRB in Normal Mammary Gland Development and in the Normal Human Postmenopausal Breast	\$89,999
BC021210	Blakely	Collin	University of Pennsylvania	Interactions between c-Myc and Development in Mammary Carcinogenesis	\$90,000
BC021221	Levitt	Randy	McGill University	Investigating the Role of Celecoxib as a Chemopreventive and Chemotherapeutic Agent for Breast Cancer	\$45,100
BC021231	Bascom	Jamie	Lawrence Berkeley National Laboratory	Examining the Relationship between Epimorphin/Syntaxin-2 and Stromelysin-Mediated Mammary Morphogenesis	\$90,000
BC021261	Lee	Soo-Jung	Yale University	Studies of the Mechanism of Rad53 Activation in Budding Yeast	\$90,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC021270	Zhu	Xining	University of Texas Health Science Center at San Antonio	Identification and Characterization of the BRCA1 Ubiquitin Ligase and Its Substrates	\$90,000
BC021342	Krosky	Daniel	Johns Hopkins University, East Baltimore Campus	Rational Inhibitors of DNA Base Excision Repair (BER) Enzymes: New Tools for Elucidating the Role of BER in Cancer Chemotherapy	\$90,000
BC021357	Thiel	Debra	University of North Carolina, Chapel Hill	Targeting Lysophosphatidic Acid Signaling in Breast Cancer Cells	\$90,000
BC021366	Gaudet	Mia	University of North Carolina, Chapel Hill	Interactions of Lifestyle Factors, Manganese Superoxide Dismutase, Catechol-O-Methyltransferase, and the Risk of Breast Cancer	\$60,000
BC021368	Tang	Ying	University Health Network, Toronto	Novel Recombinant Fab Fragments of the TAG-72 Monoclonal Antibody CC49 Containing an Integrated Radiometal Binding Site for Radioimmuno-Guided Surgery of DCIS	\$58,114
BC021385	Wu	Ya-Ling	University of Chicago	Structural Determination of Certain Novel ER Complexes	\$90,000
BC021407	Carbone	Christopher	Temple University School of Medicine	MDM2 Overexpression Cooperates with Mutant CDK4 in Mammary Cell Transformation and Tumorigenesis	\$90,000

BC021441	Willmert	Leslie	Cornell University, Ithaca	Cellular Retinoic Acid Binding Protein and Breast Cancer	\$90,000
BC021443	Parsons	Melissa	Emory University	Role of TMS1 Silencing in the Resistance of Breast Cancer Cells to Apoptosis	\$89,439
BC021483	Baumgartner	Bridget	Baylor College of Medicine	Identification of Pathways Required for the Coordination of Late Mitotic Events in Animal Cells	\$90,000
BC021491	Thompson	James	University of Maryland, Baltimore County	Novel MHC Class II Breast Cancer Vaccine Using RNA Interference (RNAi) to Down- regulate Invariant Chain (II)	\$90,000
BC021512	Zoltan-Jones	Alexandra	Tufts University School of Medicine	Promotion of Epithelial to Mesenchymal Transformation by Hyaluronan	\$90,000
BC021523	Hass	Andrew	University of Michigan	The Role of Estrogen Receptor Alpha in Tumorigenic Breast Cancer Cells	\$89,999
BC021532	Byrne	Belinda	University of Nortre Dame	Role of Oxidative Stress in Vitamin D3- Mediated Apoptosis in Breast Cancer	\$132,165
BC021607	Sherk	Andrea	Duke University Medical Center	Identification of the Molecular Mechanism by Which Tamoxifen Manifests Partial Agonist Activity in Tamoxifen Resistant Breast Tumor Xenografts	\$90,000
BC021630	Paddison	Patrick	Cold Spring Harbor Laboratory	Using RNA Interference to Reveal Genetic Vulnerabilities in Human Cancer Cells	\$90,000
BC021658	Ackroyd	Nathan	University of Illionois, Champaign/Urbana	Cyclopentadienyl Rhenium (Technetium) Tricarbonyl Complexes Integrated in Estrogen Receptor Ligands for ER+ Tumor Imaging	\$90,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC021717	Brooks	Joann	Meharry Medical College	Modification of Invasive Properties of Human Breast Cancer Cell Lines with Altered Expression of the Aryl Hydrocarbon Receptor	\$90,000
BC021753	Khan	Shaheen	Texas A&M University	Mechanism of Hormonal Regulation of CAD Gene Expression in Human Breast Cancer Cells	\$90,000
BC021774	Stafford	Lewis	Texas A&M University	Role of Metastatic Inhibitor KiSS1 and Its G- protein Coupled Receptor in Breast Cancer	\$87,820
BC021900	Leung	Jenny	University of Melbourne	Regulation of Anoikis in Human Breast Cancer Cells by Integrin-Linked Kinase	\$61,786
BC021967	Landis	Melissa	Case Western Reserve University	Elucidating the Molecular Mechanisms That Contribute to neu/ErbB2-Induced Mammary Tumorigenesis	\$89,856
BC021985	Vidal	Gregory	Tulane University	Erb4 Suppressor of ErbB2-Induced Oncogenesis in a Novel Mouse Model of Breast Cancer	\$89,998
BC022009	Long	Weiwen	Tulane University	ErbB4 Overexpression as an Antagonist of ErbB2/HER2/neu-Induced Human Breast Cancer Cell Proliferation	\$89,998
BC022015	Oakes	Samantha	Garvan Institute of Medical Research	Investigation of the Transcriptional Response to Prolactin Underlying Reduced Tumor Latency in the C3(1)/SV40 T Antigen Model of Mouse Mammary Carcinogenesis	\$89,312
BC022017	Pinkhasov	Julia	Arizona State University, Tempe	Development of a Plant-Based, Oral Breast Cancer Vaccine	\$90,000
BC022028	Dolan	Brian	University of Maryland, Baltimore	A Novel Therapeutic Vaccine for Metastatic Mammary Carcinoma: Focusing MHC/Peptide	\$89,999

			County	Complexes to Lipid Rafts	
BC022033	Collins	Tammy	Duke University Medical Center	Mechanistic Basis of Sensitivity/Resistance toward Anti-cancer Drugs Targeting Topoisomerase II	\$90,000
BC022042	Jones	Kara	Virginia Commonwealth University	Susceptibility to Radiation-Induced Apoptosis and Senescence in p53 Wild-Type and p53 Mutant Breast Tumor Cells	\$90,000
BC022068	Fischer	Nicholas	University of Massachusetts, Amherst	Nanoparticle-Mediated Rescue of p53 through Targeted Degradation of MDM2	\$73,479
BC022083	Viglianti	Benjamin	Duke University	Predicting Drug Concentration Distribution Using a Validated Finite Element Model in Locally Advanced Breast Cancer	\$90,000
Log Number	Last Name	First Name	Institution	Title	Award Amount
BC022198	Sumner	Simone	Georgetown University	One Carbon Metabolism and Methylation in Breast Tumors	\$90,000
BC022206	Keck	Jamie	Scripps Research Institute	The Effects of Deregulated Cyclin E Expression in Mitosis: A Role in Breast Tumorigenesis	\$90,000
BC022245	Ng	Simne	Cornell University, Weill Medical College	The Effects of Fatty Acids on Retinoid Signaling in Human Mammary Epithelial Cells and Breast Cancer Cells	\$90,000
BC022310	Dettenborn	Lucia	Mount Sinai School of Medicine, New York	Central Adiposity and Increased Cortisol Reactivity to Stress: Potential Source of Increased Breast Cancer Risk among Women with Family History of Breast Cancer	\$89,734
BC022318	Huang	Minming	University of Connecticut, Storrs	3D Near Infrared Diffuse Wave Imaging with Ultrasound Guidance	\$89,457

Undergraduate Summer Training Program Awards

Log Number	Last Name	First Name	Insitution	Title	Award Amount
BC020180	Zaloga	Gary	Clarian Health Partners, Inc.	Summer Student Breast Cancer Research Training Program	\$124,539
BC021013	Giger	Maryellen	University of Chicago	Undergraduate Summer Training Program in Breast Cancer Imaging	\$184,276
BC021090	Yao	Yu-Dong	Stevens Institute of Technology	A Wireless Testbed Development for a Telediagnosis and Telemammography Network	\$167,900
BC021124	Christy	Barbara	University of Texas Health Science Center at San Antonio	Summer Undergraduate Fellowships in Breast Cancer Research	\$105,840
BC021151	Bissell	Mina	Lawrence Berkeley National Laboratory	Undergraduate Training in Mammary Gland Biology and Breast Cancer	\$177,609
BC021727	Mehta	Rajendra	University of Illinois, Chicago	Training Program in Breast Cancer Prevention and Therapy for Undergraduate Students	\$158,585
BC022080	Harris	Eleanor	University of Pennsylvania	Investigating the Role of Radiation Therapy Breast Cancer Clinical and Translational Research	\$184,679

Fiscal Year 2002 Breast Cancer Research Program Integration Panel Members

IP Member	Degree	Institution/Affiliation
Matrisian, Lynn M. (Chair)	Ph.D.	Vanderbilt University School of Medicine
Barker, Anna D.	Ph.D.	BIO-NOVA, Inc.
Berg, Wendie A.	M.D., Ph.D.	University of Maryland, Baltimore
Bernstein, Leslie	Ph.D.	University of Southern California, Keck School of Medicine
Bresnick, Edward	Ph.D.	Dartmouth Medical School
Fajardo, Laurie L.	M.D.	Johns Hopkins University
Given, Barbara A.	Ph.D., F.A.A.N.	Michigan State University, College of Nursing
Hinestrosa, M. Carolina	M.A.	Nueva Vida
Jones, Peter A.	Ph.D., D.Sc.	University of Southern California, Norris Comprehensive Cancer Center
Kolonel, Laurence N.	M.D., M.P.H., Ph.D.	University of Hawaii, Cancer Research Center of Hawaii
Lythcott, Ngina	Dr.P.H.	Columbia University, Mailman School of Public Health
Medina, Daniel	Ph.D.	Baylor College of Medicine
Recht, Abram	M.D.	Harvard Medical School
Redd, William H.	Ph.D.	Mt. Sinai – New York University Medical Center
Rosso, Rosemary	J.D.	Greater Baltimore-Washington Breast Cancer Group
Slamon, Dennis (Chair Emeritus)	M.D., Ph.D.	University of California, Los Angeles, School of Medicine
Sledge, George W., Jr.	M.D.	Indiana University School of Medicine
Steeg, Patricia S. (Chair-Elect)	Ph.D.	National Cancer Institute
Visco, Frances M.	J.D.	National Breast Cancer Coalition
Wahl, Geoffrey M.	Ph.D.	The Salk Institute for Biological Studies

Fiscal Year 2002 Breast Cancer Research Program Peer Reviewers

Peer Reviewer	Degree	Affiliation
Aarsvold, John	Ph.D.	Atlanta VA Medical Center
Abbey, Craig	Ph.D.	University of California, Davis
Abdel-Nabi, Hani	M.D., Ph.D.	State University of New York-Buffalo
Adams, David	Ph.D.	Duke Comprehensive Cancer Center
Adamson, Eileen	Ph.D.	The Burnham Institute
Aft, Rebecca	M.D., Ph.D.	Washington University
Agrawal, Krishna	Ph.D.	Tulane University
Agurs-Collins, Tanya	Ph.D.	Howard University
Ahluwalia, Jasjit	M.D., M.P.H.	University of Kansas
Ahn, Chul	Ph.D.	University of Texas at Houston
Ahsan, Habibul	M.D.	Columbia-Presbyterian Medical Center
Akman, Steven	M.D.	Wake Forest University
Albertson, Donna	Ph.D.	Cancer Research Institute
Aldaz, Claudio	M.D., Ph.D.	University of Texas M.D. Anderson Cancer Center
Alexander, Caroline	Ph.D.	University of Wisconsin
Angtuaco, Teresita	M.D.	University of Arkansas
Armer, Jane	Ph.D., R.N.	Oncology Nursing Society
Artandi, Steven	M.D., Ph.D.	Stanford University
Asci, Susan		New England Council
Avraham, Hava	Ph.D.	Beth Israel Deaconess Medical Center
Bachur, Nicholas	M.D., Ph.D.	University of Maryland
Badano, Aldo	Ph.D.	CDRH, FDA
Bailis, Adam	Ph.D.	Beckman Research Institute of the City of Hope
Bain, David	Ph.D.	University of Colorado
Barber, Glen	Ph.D.	University of Miami

Peer Reviewer	Degree	Affiliation
Barcellos-Hoff, Mary	Ph.D.	Lawrence Berkeley National Laboratory
Bar-Eli, Menashe	Ph.D.	University of Texas M.D. Anderson Cancer Center
Barlow, William	Ph.D.	University of Washington
Bartholomew, Blaine	Ph.D.	Southern Illinois University
Barton, Theresa	P.T.	People Living Through Cancer
Basu, Alakananda	Ph.D.	University of North Texas
Bazell, Robert	C.Phil.	NBC News
Belinsky, Steven	Ph.D.	Lovelace Respiratory Research Institute
BenComo, Jose	Ph.D.	University of Texas M.D. Anderson Cancer Center
Ben-Jonathan, Nira	Ph.D.	University of Cincinnati
Berbaum, Kevin	Ph.D.	University of Iowa
Berger, Ann	Ph.D.	University of Nebraska
Berman, Barbara	Ph.D.	University of California-Los Angeles
Berman, Howard		Executive Secretary
Bernett, Renee		Living Beyond Breast Cancer
Beyer, Deanna	M.S., R.N.	American Cancer Society
Birge, Raymond	Ph.D.	University of Medicine and Dentistry of New Jersey
Bissell, Mina	Ph.D.	Lawrence Berkeley National Laboratory
Blackstock, Jr., Arthur	M.D.	Wake Forest University
Blakely, Eleanor	Ph.D.	Lawrence Berkeley National Laboratory
Bloom, Joan	Ph.D.	University of California at Berkeley
Boldt, David	M.D.	University of Texas
Bolinger, Lizann	Ph.D.	University of Iowa
Bolton, Judy	Ph.D.	University of Illinois at Chicago
Boothman, David	Ph.D.	Case Western Reserve University
Borgstahl-Kramer, Gloria E.	Ph.D.	Eppley Cancer Research Institute
Borowiec, James	Ph.D.	New York University

Peer Reviewer	Degree	Affiliation
Bos, Timothy	Ph.D.	Eastern Virginia Medical School
Bose, Shikha	M.D.	Cedars Sinai Medical Center
Bourguignon, Lilly Y.	Ph.D.	San Francisco VA Medical Center, University of California-San Francisco
Bowen, Deborah	Ph.D.	Fred Hutchinson Cancer Center
Boyd, Jeff	Ph.D.	Memorial Sloan Kettering Cancer Center
Boyd, Norman	M.D., D.Sc., FRCPC	Princess Margaret Hospital, University of Toronto
Boyett, James	Ph.D.	St. Jude Children's Research Hospital
Bradlow, Herbert	Ph.D.	Hackensack University
Brady-Kalnay, Susann	Ph.D.	Case Western Reserve University
Brattain, Michael	Ph.D.	Roswell Park Cancer Institute
Brenin, David	M.D.	University of Virginia
Bresnick, Anne	Ph.D.	Albert Einstein College of Medicine
Briehl, Margaret	Ph.D.	University of Arizona
Bright, Robert	Ph.D.	Texas Tech University
Brown, Anthony	Ph.D.	Cornell University
Brown, David	Ph.D.	University of Texas
Brown, Diane	Ph.D.	University of Medicine and Dentistry of New Jersey
Brown, Edward	Ph.D.	Massachusetts General Hospital
Brown, Myles	M.D.	Dana-Farber Cancer Institute
Brown, Powel	M.D., Ph.D.	Baylor College of Medicine
Brown, Stephen	Ph.D.	Henry Ford Health System
Burbelo, Peter	Ph.D.	Georgetown University
Burke, Harry	M.D., Ph.D.	George Washington University
Cabral, Daramola	Dr.P.H.	Northern California Cancer Center
Calle, Eugenia	Ph.D.	American Cancer Society
Cancro, Michael	Ph.D.	University of Pennsylvania

Peer Reviewer	Degree	Affiliation
Cangiarella, Joan	M.D.	New York University
Canin, Beverly		Benedictine Hospital
Caplan, Elyse	M.A.	Living Beyond Breast Cancer
Carolin, Kathryn	M.D.	Harper Hospital, Wayne State University
Carpenter, Janet	R.N., Ph.D.	Vanderbilt University
Carson, III, William	M.D.	Ohio State University
Cassell, Delanie	Ph.D.	Bayer Corporation
Castellani, Rudolph	M.D.	Michigan State University
Celis, Esteban	M.D., Ph.D.	Mayo Clinic
Chai, Karl	Ph.D.	University of Central Florida
Chamness, Gary	Ph.D.	Baylor College of Medicine
Chan, Andrew	Ph.D.	The Derald H. Ruttenberg Cancer Center, The Mount Sinai School of Medicine
Chance, Britton	Ph.D., Sc.D.	University of Pennsylvania
Chang, Chawnshang	Ph.D.	University of Rochester
Chase, Gary	Ph.D.	Henry Ford Health Sciences Center
Chatterjee, Malaya	Ph.D.	University of Cincinnati
Chatterjee, Sunil	Ph.D.	University of Cincinnati
Chatterton, Robert	Ph.D.	Northwestern University
Chaudhuri, Gautam	Ph.D.	Meharry Medical College
Chen, George	Ph.D.	Massachusetts General Hospital
Chen, Hongwu	Ph.D.	University of California, Davis
Chen, Jin	M.D., Ph.D.	Vanderbilt University
Chen, Junjie	Ph.D.	Mayo Clinic & Foundation
Chen, Ling	M.D., Ph.D.	Biotherapeutics, Lexicon Genetics, Inc.
Chen, Shiuan	Ph.D.	Beckman Research Institute of the City of Hope
Chen, Si-Yi	M.D., Ph.D.	Baylor College of Medicine

Peer Reviewer	Degree	Affiliation
Chen, Wen	Ph.D.	Clemson University & Greenville Hospital System
Chen, Xinbin	Ph.D, D.V.M.	University of Alabama at Birmingham
Cheng, Shi-Yuan	Ph.D.	University of Pittsburgh
Chin, Y. Eugene	M.D., Ph.D.	Brown University
Chingos, Diana	M.A.	University of Southern California
Chrysogelos, Susan	Ph.D.	University of Michigan
Ciavarra, Richard	Ph.D.	Eastern Virginia Medical School
Citrin, Charles	M.D.	Health South
Clarke, Robert	Ph.D., D.Sc.	Georgetown University
Clevenger, Charles	M.D., Ph.D.	University of Pennsylvania
Cline, J. Mark	D.V.M., Ph.D.	Wake Forest University
Clinton, Gail	Ph.D.	Oregon Health Sciences University
Cochrane, Barbara	Ph.D., R.N.	Fred Hutchinson Cancer Research Center
Coetzee, Gerhard	Ph.D.	University of Southern California
Cohen, Carmel	M.D.	Mount Sinai Medical Center
Cohen, Stanley	M.D.	University of Medicine and Dentistry of New Jersey
Cohen, Susan	M.A., J.D.	New York State Breast Cancer Network
Cohick, Wendie	Ph.D.	Rutgers University
Coleman, Elizabeth	Ph.D., R.N.	University of Arkansas for Medical Sciences
Collinge, William	Ph.D.	General Delivery
Coney, PonJola	M.D.	Meharry Medical College
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**Fiscal Year 2002 Breast Cancer Research Program
Ad Hoc Programmatic Reviewers**

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Smith, David	Ph.D.	Mayo Foundation
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Vonderhaar, Barbara	Ph.D.	National Cancer Institute
Yuan, Junying	Ph.D.	Harvard Medical School
Yaker, Alice	J.D.	National Breast Cancer Coalition

Glossary of Terms

Biotechnology Clinical Partnership Awards: The Biotechnology Clinical Partnership Awards are intended to support prospective clinical trials in the areas of breast cancer therapeutics and chemoprevention through the establishment of partnerships between the biotechnology industry and academic institutions. Biotechnology Clinical Partnership Awards must include data and a plan to conduct a prospective clinical trial with a minimum of 2 years of patient accrual during the lifetime of the award.

Breast Cancer Center of Excellence Awards: The Breast Cancer Center of Excellence Awards are intended to support the establishment of a directed multi-institutional collaboration among highly accomplished scientists from diverse backgrounds and areas of expertise to create a critical mass of talent focused on the solution of a major overarching problem in breast cancer research. Breast cancer consumer/survivor groups should be active participants in these multidisciplinary efforts. The results generated from these awards should have a major impact on the prevention, detection, diagnosis, and/or treatment of breast cancer.

Clinical Research Nurse Awards: Clinical Research Nurse Awards are intended to facilitate the preparation of nurses for active careers in breast cancer research and testing. The overall goal of this award is to prepare nurses for the breast cancer clinical research profession through mentored research training. Eligible applicants should have a bachelor, masters, or doctoral degree in nursing with an interest in breast cancer clinical research.

Clinical Translational Research (CTR) Awards: The intent of CTR Awards is to extend recent findings in breast cancer research that offer the potential to revolutionize the practice of breast cancer care. CTR Awards only support projects in the areas of chemoprevention and therapeutics that are likely to have a major impact on breast cancer by applying promising and well-founded laboratory or other preclinical research findings to the clinical care of patients with, or populations at risk for, breast cancer. Applicants must include preliminary data to support the feasibility of their hypotheses and approaches, along with a plan to conduct a prospective clinical trial or study during the course of the award.

Collaborative-Clinical Translational Research Awards: The goals of this award mechanism are to (1) support the infrastructure costs (personnel) required to develop consortium models based on new or existing networks that include academic centers, community-based oncology practices, consumer/survivor groups, and the private sector for the express purpose of performing clinical trials; and (2) test new agents or technologies to accelerate the eradication of breast cancer. The Collaborative-Clinical Translational Research Awards are intended to enhance patient participation in clinical trials by bringing together the resources of academia, community-based oncology practices, and the private sector to evaluate promising drugs and technologies for the early detection, treatment, and prevention of breast cancer.

Exploration Awards: Exploration Awards are designed to encourage the exploration of untested, innovative questions in breast cancer. A goal of this award is to promote creative thinking that will yield imaginative concepts, ideas, and approaches at the dynamic interfaces of

different areas of science, including those not traditionally or extensively involved in cancer research. Exploration Award proposals are not intended to support a logical progression of an already established research project, but should represent a new paradigm in the study of breast cancer, challenge existing paradigms, or look at an existing problem from a new, untested perspective.

Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Partnership Training Awards: These awards are intended to provide assistance at an institutional level. A major goal of this award is to support collaborations between an applicant HBCU/MI and a collaborating institution with established investigators in breast cancer research for the purpose of creating an environment that fosters breast cancer research and in which HBCU/MI investigators will receive training toward establishing successful breast cancer research careers. A long-term goal is to assist HBCU/MI investigators in submitting competitive breast cancer research proposals.

Idea Awards: The intent of Idea Awards is to encourage innovative approaches to breast cancer research. Innovation will receive 50% of the emphasis in the first tier of review. These proposals may represent a new paradigm in the study of breast cancer, challenge existing paradigms, or look at an existing problem from a new perspective. The proposed studies may be untested, but should have a high probability of revealing new avenues of investigation. Idea Awards do not require preliminary or pilot data, but should be based on a sound scientific rationale established through a critical review and analysis of the literature and/or logical reasoning.

Innovator Awards: The intent of the Innovator Award is to provide accomplished and visionary scholars/investigators from the academic, government, and private sectors with the funding and freedom to pursue creative, potentially breakthrough research that could ultimately accelerate the eradication of breast cancer. The primary criteria for making these awards will be the record and potential for accomplishment of the applicant rather than the merits of a specific research project. Experience in breast cancer research is not required; applicants can be either established breast cancer investigators or new to the field of breast cancer research. It is expected that the Innovator Award recipient will commit a minimum of 50% of his/her full-time professional effort to breast cancer research during the period of this award.

Physician-Scientist Training Awards: Physician-Scientist Training Awards address the critical shortage of physicians performing clinical breast cancer research. Eligible applicants for the Physician-Scientist Training Award are physicians in the last year of oncology graduate medical education or within the first 3 years as a junior faculty member. This award is intended to provide a mentored training experience that will prepare physicians for active careers in clinical breast cancer research. The training must take place at an institution or organization within the United States at which clinical research is performed. Key elements of this award are the involvement of a mentor with an established cancer research program with an emphasis in clinical breast cancer research and the aggressive protection of the Principal Investigator's time.

Postdoctoral Traineeship Awards: The intent of Postdoctoral Traineeship Awards is to enable recent doctoral or medical degree graduates with limited postdoctoral experience (i.e., less than 5

years) to either extend ongoing research related to breast cancer or broaden the scope of their research to include work relevant to breast cancer under the guidance of a designated mentor. Eligible applicants should have been in the laboratory in which this research is to be performed no more than 2 years at the time of submission. The research focus of Postdoctoral Traineeships should address an issue relevant to breast cancer biology, etiology, prevention, detection, diagnosis, and/or therapy. Individuals with any doctoral degree are encouraged to apply.

Predoctoral Traineeship Awards: The intent of Predoctoral Traineeship Awards is to support promising graduate students studying breast cancer under the guidance of a designated mentor. The overall goal of Predoctoral Traineeship Awards is to prepare individuals for careers in breast cancer research. The award is targeted to individuals enrolled in an M.D. or Ph.D. program.

Undergraduate Summer Training Program Awards: The intent of this award is to establish summer breast cancer training programs that will provide meaningful research experiences for undergraduate students. Each program will support internships lasting 8-12 weeks for four to eight students. A goal of the Undergraduate Summer Training Program Award is to attract talented students to careers that focus on breast cancer research by providing educational and training opportunities at an important career decision-making point.